BRUHAT BANGALORE MAHANAGARA PALIKE

Sl No.	NAME OF WORK
a)	PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS AT ALLALASANDRA LAKE IN WARD NO:04 OF YELAHANKA DIVISION
b)	1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.
c)	PROVIDING GRILL FENCING AND CONSTRUCTION OF BADMINTON COURT AT ALLALASANDRA LAKE IN WARD NO.04 OF YELAHANKA DIVISION
d)	PROVIDING GRILL FENCING AT SOMESHWARA HILL LAKE IN WARD NO.03 OF YELAHANKA DIVISION

ABSTRACT ESTIMATE

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
1	Removing and resetting of kerb stones. complete as per specifications and directions of the Engineer in charge.	m	2253.28	104.94	236459.2032
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**m**	**2253.28**		
2	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete., complete as per specifications and directions of the Engineer in charge.	m	3934.00	432.48	1701376.32
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**m**	**2974.00**		
d)	**PROVIDING GRILL FENCING AT SOMESHWARA HILL LAKE IN WARD NO.03 OF YELAHANKA DIVISION**	**m**	**960.00**		
3	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint complete as per specifications and directions of the Engineer in charge.	m	432.00	432.48	186831.36
d)	**PROVIDING GRILL FENCING AT SOMESHWARA HILL LAKE IN WARD NO.03 OF YELAHANKA DIVISION**	**m**	**432.00**		
4	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. complete as per specifications and directions of the Engineer in charge.	Cum	157.27	5505.64	865858.6516
a)	**PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS AT ALLALASANDRA LAKE IN WARD NO:04 OF YELAHANKA DIVISION**	**Cum**	**8.89**		
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Cum**	**148.38**		
5	Providing and applying painting in two coat with Synthetic enamel paint of approved brand and manufacture on concrete surface with cost of materials ,labour ,complete as per specifications.complete as per specifications and directions of the Engineer in charge.	Sqm	1925.30	84.80	163265.44

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Sqm**	**1795.70**		
d)	**PROVIDING GRILL FENCING AT SOMESHWARA HILL LAKE IN WARD NO.03 OF YELAHANKA DIVISION**	**Sqm**	**129.60**		
6	Providing and laying heavy duty cobble stones 60mm thick interlock pavers,using cement and course sand for manufacturer of blocks of approved size,shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed(average Thinkness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to comeup in between joints , final compaction of pavers surfaces joint into its final level including cost of materials,labour and HOM complete as per specifications. complete as per specifications and directions of the Engineer in charge.	Sqm	1902.74	1116.18	2123797.119
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Sqm**	**1254.74**		
d)	**PROVIDING GRILL FENCING AT SOMESHWARA HILL LAKE IN WARD NO.03 OF YELAHANKA DIVISION**	**Sqm**	**648.00**		
7	KSRRB M200-12.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20. MORTH Specification. (5km lead = 57+2*1.28X5). complete as per specifications and directions of the Engineer in charge.	Cum	2.85	660.22	1880.63667
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Cum**	**2.85**		
8	Dismantling of barbed wire fencing / wire mesh fencing including posts, foundation concrete, back filling of pit by manual means including disposal of dismantled material with all lifts and stacking serviceable material and unserviceable material separately complete as per specifications. MORTH Specification. complete as per specifications and directions of the Engineer in	m	1015.70	69.96	71058.65184
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**m**	**1015.70**		
9	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. complete as per specifications and directions of the Engineer in charge.	cum	432.61	4871.76	2107581.837
a)	**PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS AT ALLALASANDRA LAKE IN WARD NO:04 OF YELAHANKA DIVISION**	**cum**	**28.44**		
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**cum**	**324.97**		
d)	**PROVIDING GRILL FENCING AT SOMESHWARA HILL LAKE IN WARD NO.03 OF YELAHANKA DIVISION**	**cum**	**79.20**		

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
10	Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:4 , edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, scaffolding, curing complete as per specifications.complete as per specifications and directions of the Engineer in charge.	Cum	299.94	6365.30	1909198.534
a)	**PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS AT ALLALASANDRA LAKE IN WARD NO:04 OF YELAHANKA DIVISION**	**Cum**	**18.05**		
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Cum**	**243.73**		
d)	**PROVIDING GRILL FENCING AT SOMESHWARA HILL LAKE IN WARD NO.03 OF YELAHANKA DIVISION**	**Cum**	**38.16**		
11	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications..complete as per specifications and directions of the Engineer in charge.	Sqm	589.02	150.52	88659.2904
a)	**PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS AT ALLALASANDRA LAKE IN WARD NO:04 OF YELAHANKA DIVISION**	**Sqm**	**47.40**		
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Sqm**	**541.62**		
12	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.complete as per specifications and directions of the Engineer in charge.	Cum	126.16	5647.68	712518.3684
a)	**PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS AT ALLALASANDRA LAKE IN WARD NO:04 OF YELAHANKA DIVISION**	**Cum**	**8.61**		
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Cum**	**117.55**		
13	Supplying and fixing M.S rectangular poles made out of two equal angles of 65X65X6 mm welded together and fixed in CC 1:2:4 with two numbers 16mm dia M.S hold fast rods each of length 25cms including cost of all materials cutting, bending scaffolding whereever necessary, nicely finishing the welded jonts with all lead lift and as per the direction of engineer incharge of the work and including providing two coats of approved quality paint over coat of shop painting (excluding cost of earthwork and concrete)..complete as per specifications and directions of the Engineer in charge.	m	646.04	910.54	588245.2616
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**m**	**430.04**		
d)	**PROVIDING GRILL FENCING AT SOMESHWARA HILL LAKE IN WARD NO.03 OF YELAHANKA DIVISION**	**m**	**216.00**		

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
14	Fabricating providing and erecting in position of MS Hot Dip galvanized sq hallow poles of 132 x132 heavy gauge length 3000mm with MS Hot Dip galvanized grill work as per approved design and drawing of chief architect using 12 x75mm galvanized flat for alround frame and 20 x 20mm galvanized forged ornamental arrow head in top and buttom the work is inclusive of throughing flat square rods placing welding all the joints including griding finishing 2 coats of anticorrossive paint over one coat of metal primer the rate is inclusive of all materials all items of work cost painting welding cutting griding with lead and lift as per specifications including loading and unloading with cost and conveyance of all materials labour machinery and incidental charges for the successful completion of the work as per direction of engineer in charge of work.	Sqm	2418.00	9144.14	22110530.52
a)	**PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS AT ALLALASANDRA LAKE IN WARD NO:04 OF YELAHANKA DIVISION**	**Sqm**	**142.20**		
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Sqm**	**1805.40**		
d)	**PROVIDING GRILL FENCING AT SOMESHWARA HILL LAKE IN WARD NO.03 OF YELAHANKA DIVISION**	**Sqm**	**470.40**		
15	Providing chain link fencing 50mm size of 8 guage properly stretched between rectangularpoleas and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour lead and lift and as per the directions of the engineer incharge of work including two coats of approved quality paint over one coat of shop paint. completion of the work as per direction of engineer in charge of work.	Sqm	1131.31	757.90	857423.1838
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Sqm**	**886.51**		
d)	**PROVIDING GRILL FENCING AT SOMESHWARA HILL LAKE IN WARD NO.03 OF YELAHANKA DIVISION**	**Sqm**	**244.80**		
16	Providing and fixing M.S Gate as per Chief Architect Drawing , using 50mm x 50mm x 14 gauge M.S hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16mm x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40 mm x 6mm M.S flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. all the steel surface should be throughly cleaned free of rust and painted with anti materials , labour charges for all items of work , Hire charges for welding , cutting and grinding eqipment , electricity charges , with lead and lift , loading and unloading charges , etc.completion of the work as per direction of engineer in charge of work.	Sqm	27.90	3192.72	89076.888
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Sqm**	**27.90**		
17	Fabricating, providing and erecting in position Hot dip galvanized Gate. Using 72x72x4.8 mm Sq. G I Pipe Frame with top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanized sq.rod for verticals at 150mm c/c , as shown in the drawing including providing hot do galvanized forged ornamental design in between rods and heads at top, middle and bottom. Intermediate supports of 75x12mm and 50x6mm arch bent to hot dip galvanized flats.The work is inclusive of throughing GI, Flat GI Sqm. rods, placing, welding all the joints including grinding, finishing metal patty, painting two coats enamel painting. The rate is inclusive of all materials Like GI Sq. GI Pipe, GI Forged designs etc., heavy duty hinges are made out of 75mm sold sq. block assembled with 20mm du bearing in three places for each flop. Heavy duty locking arrangement of low places including cost of labour, painting, erection charges using hoist pulley cranes, with all lead and lift, loading, trasportation, unloading, scaffolding charges and all other.completion of the work as per direction of engineer in charge of work.	Sqm	56.40	12475.03	703591.692

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
a)	**PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS AT ALLALASANDRA LAKE IN WARD NO:04 OF YELAHANKA DIVISION**	**Sqm**	**14.40**		
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Sqm**	**31.20**		
d)	**PROVIDING GRILL FENCING AT SOMESHWARA HILL LAKE IN WARD NO.03 OF YELAHANKA DIVISION**	**Sqm**	**10.80**		
18	Providing and applying enamel metal paint two coats (exclusive primer coat) over new steel or other metal surfaces brushing to give an shade after cleaning oil grease dirt and other forien matters including cost of materials labour complate as per specifications. completion of the work as per direction of engineer in charge of work.	Sqm	839.71	100.70	84558.6963
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Sqm**	**839.71**		
19	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.completion of the work as per direction of engineer in charge of work.	Sqm	143.23	729.28	104453.2283
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Sqm**	**122.98**		
d)	**PROVIDING GRILL FENCING AT SOMESHWARA HILL LAKE IN WARD NO.03 OF YELAHANKA DIVISION**	**Sqm**	**20.25**		
20	Earthwork excavation By manual means for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. (5km lead = 57+2*1.28X5). completion of the work as per direction of engineer in charge of work.	Cum	589.99	386.74	228172.2492
a)	**PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS AT ALLALASANDRA LAKE IN WARD NO:04 OF YELAHANKA DIVISION**	**Cum**	**44.44**		
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Cum**	**545.55**		
21	Providing and filling sand in trenches to required depth including watring ramming with all leads and lift complete as per specifications and directed by the engineer incharge at the site.completion of the work as per direction of engineer in charge of work.	cum	285.00	2183.60	622326
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**cum**	**285.00**		

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
22	Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications..completion of the work as per direction of engineer in charge of work.	Sqm	182.60	966.72	176523.072
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Sqm**	**182.60**		
23	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. completion of the work as per direction of engineer in charge of work.	Sqm	111.54	1305.92	145660.3579
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Sqm**	**111.54**		
24	Supply & fixing of children multi play equipment with spiral slide, monkey bar with number pannel . Upright structural posts of height 4.2 m are to be hot dip galvanized steel with a 114 mm OD and 2.2mm wall thickness of tubing . Roof of size 1.9m x 1.7m x 0.77 m , spiral slide of size2.56m x 1.85m x 2.68m. Top rails of monkey bar size 1.8m x 1.3m are all robotic welded & fabricated from 48mm OD galvanized steel pipes for the outer bars &32 mm OD galvanized steel for the inner parallel bars with a baked on powder coated finish. Deck of size 1.45 x 1.45 m are pressed and punched , welded ,sand blasted ,powder coated to 2.2mm thickness or vinyl coated to a thickness of 4mm . Deck of size 1.45 x 1.45 m are pressed and punched , welded ,sand blasted ,powder coated to 2.2mmthickness or vinyl coated to a thickness of 4mm. Deck, step, platform ,stairs, baffle shall be all robotic welded. Inclined ramps of size 1.92m x 0.65m , stair case of size 1.5m x 0.77m are fabricated from solid 2mm perforated solid punched steel Frisbee climber , piped walls of size 1 m are robotic welded , fabricated from 32 mm OD galvanized steelpipes for outer and 25mm OD galvanized steel pipes for inner bar with baked on powder coat finish.The poles welded on to base plate made from steel with 114mm inner dia double slide of size 2.2 m x 1.5m x 1.45 m panel. The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges. completion of the work as per direction of engineer in charge of work.	Each	2.00	1915900.00	3831800
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Each**	**2.00**		

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
25	Supply and fixing of childern Multi Play Equipment with double swing, curved side toddler slide with animated roof Upright structural posts of height 2.7 m and 3 m are to be schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. The poles are welded on to a base plate made from steel with 114mm inner diameter. Deck of size 1.45 x 1.45m and Staircase of size 1.48 m x 0.60 m are fabricated from 2mm perforated solid punched steel. Deck perimeter is precision pre punched for attachments. Handrail of height 1.90 m and Dia 32 mm shall be an all-robotic welded unit, fabricated from 32 O.D. galvanized steel pipes with a baked on powder coating finish. Exposed hardware shall be covered with ultra violet stabilized plastic safety caps as per Sun Roof of size 2.0 m x 1.78 m x 0.77m, Spiral Slide of size 2220 mm x 1630 mm x 1880 mm , Straight Slide of size 1645 mm x 800 mm x 1140 mm, Panels. Roofs and panels are copyrighted and IP protected worldwide. Spring Climber of thickness Dia 38 mm, 3 step ladder , Frisbee Climber ,Piped walls of Height 2.7 m are all robotic welded fabricated from 32 O.D. galvanized steel pipes for the outer pipes and 25mm O.D. galvanized steel for the inner parallel bars with a baked on powder coat finish. The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges. Charges. completion of the work as per direction of engineer in charge of work.	Each	1.00	1216720.00	1216720
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Each**	**1.00**		
26	Supply and fixing of childern Multi Play Equipment with curved slide and number panel : Upright structural posts of height 2.4 m, 2.7 m, 3.3 m schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. All metal components are to be finished with a baked on powder coat finish.With deck of size 1.45 x 1.45m and Staircase of size 1.5m x 0.77 m are fabricated from 2mm perforated solid punched steel. Deck perimeter is precision pre punched for attachments. Decks are pressed, punched, and welded sand blasted and vinyl plastic coated to a thickness of 4mm. Along with Handrail of height 2.2 m and Dia 32 mm shall be an all-robotic welded unit, fabricated from 32 O.D. galvanized steel pipes with a baked on powder coating finish.Curved Slide of size 1.94 m x 1.85 m x 2.4 m, Panels,Toprails Of Monkey loop of size 1.8 m x 1.3 m.Deck of size 1.45 x 1.45m are fabricated from 2mm perforated solid punched steel. Deck perimeter is precision pre punched for attachments. Decks are pressed, punched, and welded sand blasted and vinyl plastic coated to a thickness of 4mm. Roof of size Dia 2 m and height 0.82 m, Spiral Slide of size 1.16 m x 1.6 m x 3.6 m, Panels The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges.completion of the work as per direction of engineer in charge of work.	Each	1.00	2201295.00	2201295
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Each**	**1.00**		
27	Supply and fixing of childern Multi Play Equipment :Upright structural posts of height 2.35 m , 3.0 m and 3.25 m are to be schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. Handrail of height 2.20 m and Dia 32 mm shall be an all-robotic welded unit, fabricated from 32 O.D. galvanized steel pipes with a baked on powder coating finish. Snake Ladder Climber of size 0.99 m x 0.62 m x 1.20 m with thickness of Dia 38 mm, Piped walls of Height 2.6 m are all robotic welded fabricated from 32 O.D. galvanized steel pipes for the outer pipes and 25mm O.D. galvanized steel for the inner parallel bars with a baked on powder coat finish. crab Roof of size 1.9 m x 1.7 m x 0.77m, Sun Roof of size 2.0 m x 1.78 m x 0.77m, Straight slide 2.28 m x 0.83 m x 1.20 m , Spiral Slide of size 2.22 m x 1.60 m x 1.5 m, Rock climber of size 1.03 m x 0.70 m x 1.20 m Panel. The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges..completion of the work as per direction of engineer in charge of work.	Each	4.00	1498900.00	5995600

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Each**	**4.00**		
28	Supply and fixing of childern Play Equipment Two seater seesaw : The See Saw consists of 2 poles of Dia 114mm and thickness of 2.5mm which balances the horizontal rod at the center which is of size 3110 mm length and Dia 114 mm. It consists of 2 seats which is made of LLDPE virgin plastic of size 305mm X 213 mm X 125 mm. The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges.completion of the work as per direction of engineer in charge of work.	Each	5.00	83478.00	417390
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Each**	**5.00**		
29	Supply & fixing of Arm & Pedal Bike : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 830 MM x 500MM x 1450 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges .completion of the work as per direction of engineer in charge of work.	Each	1	212500	212500
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Each**	**1.00**		

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
30	Supply & fixing of Big Shoulder Wheel : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 845 MM x 810MM x 1710MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges.completion of the work as per direction of engineer in charge of work.	Each	1	150000	150000
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Each**	**1.00**		
31	Supply & fixing of Elliptical Cross Trainer: All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 845 MM x 865 MM x 1710 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges.completion of the work as per direction of engineer in charge of work.	Each	1	175000	175000
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Each**	**1.00**		

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
32	Supply & fixing of Pull Down Challenger : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 2570 MM x 840 MM x 2200 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges.completion of the work as per direction of engineer in charge of work.	Each	1	296000	296000
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Each**	**1.00**		
33	Supply & fixing of Seated Chest Press : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1955 MM x 730 MM x 1955 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges.completion of the work as per direction of engineer in charge of work.	Each	1	287500	287500

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Each**	**1.00**		
34	Supply & fixing of Rider : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 910 MM x 655 MM x 1210 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges.completion of the work as per direction of engineer in charge of work.	Each	1	112500	112500
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Each**	**1.00**		
35	Supply & fixing of Tai Chi Spinners : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1150 MM x 1120 MM x 1620 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges .completion of the work as per direction of engineer in charge of work.	Each	1	143750	143750

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Each**	**1.00**		
36	Supply & fixing of HD Sit Up Station : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1365 MM x 1335 MM x 700 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges. .completion of the work as per direction of engineer in charge of work.	Each	1	156250	156250
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Each**	**1.00**		
37	Supply & fixing of HD Squat Pushing : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 2270 MM x 635 MM x 1640 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges..completion of the work as per direction of engineer in charge of work	Each	1	268750	268750

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Each**	**1.00**		
38	Supply & fixing of HD Health Walker :All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Footplates made of alloys of Nylon having good thermal stability. Internal Limited means no bump stops or crush points. Bearings : Maintenance-free ball bearings. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1070 MM x 615 MM x 1360 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges.completion of the work as per direction of engineer in charge of work	Each	1	175000	175000
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	Each	1.00		
39	Supply & fixing of HD Mini Ski :All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Footplates made of alloys of Nylon having good thermal stability. Internal Limited means no bump stops or crush points. Bearings : Maintenance-free ball bearings. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1150 MM x 900MM x 1285 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges.completion of the work as per direction of engineer in charge of work	Each	1	199100	199100

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Each**	**1.00**		
40	Supply & fixing of HD Waist Twister :All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Footplates made of alloys of Nylon having good thermal stability. Internal Limited means no bump stops or crush points. Bearings : Maintenance-free ball bearings. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1460 MM x 1310 MM x 1150 MM . Capacity 3 persons. Inclusive of All Taxes and Transportation Charges.completion of the work as per direction of engineer in charge of work	Each	1	162500	162500
b)	**1) PROVIDING GRILL FENCING TO SELECTED PARKS IN WARD NO.02, 03 & 04 OF YELAHANKA DIVISION. 2) PROVIDING CHILDREN PLAYING EQUIPMENTS AND GYM EQUIPMENTS IN WARD NO. 02, 03 & 04 OF YELAHANKA DIVISION.**	**Each**	**1.00**		
41	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clodscomplete as per specifications and directions of the Engineer in charge.	Cum	113.17	322.92	36545.50224
C)	**PROVIDING GRILL FENCING AND CONSTRUCTION OF BADMINTON COURT AT ALLALASANDRA LAKE IN WARD NO.04 OF YELAHANKA DIVISION**	**Cum**	**113.17**		
42	Bored / Cast-in-situ R.C.C. . piles with OPC cement design mix M20 @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 excluding reinforcement as per drawings including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Specification complete as per specifications and directions of the Engineer in charge.	**m**	**624.00**	12214.80	7622035.2
C)	**PROVIDING GRILL FENCING AND CONSTRUCTION OF BADMINTON COURT AT ALLALASANDRA LAKE IN WARD NO.04 OF YELAHANKA DIVISION**	**m**	**624.00**		
43	Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.complete as per specifications and directions of the Engineer in charge.	Cum	6.02	5510.16	33193.20384

Sl. No.	Description of Work	Unit	Quantity	Rate	Amount
C)	**PROVIDING GRILL FENCING AND CONSTRUCTION OF BADMINTON COURT AT ALLALASANDRA LAKE IN WARD NO.04 OF YELAHANKA DIVISION**	**Cum**	**6.02**		
44	Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. complete as per specifications and directions of the Engineer in charge.	Cum	119.47	5855.76	699564.2242
C)	**PROVIDING GRILL FENCING AND CONSTRUCTION OF BADMINTON COURT AT ALLALASANDRA LAKE IN WARD NO.04 OF YELAHANKA DIVISION**	**Cum**	**119.47**		
45	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerddressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing complete as per specifications and directions of the Engineer in charg	Cum	1.70	4963.68	8443.21968
C)	**PROVIDING GRILL FENCING AND CONSTRUCTION OF BADMINTON COURT AT ALLALASANDRA LAKE IN WARD NO.04 OF YELAHANKA DIVISION**	**Cum**	**1.70**		
46	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications.complete as per specifications and directions of the Engineer in charge.	Cum	25.29	217.08	5490.60444
C)	**PROVIDING GRILL FENCING AND CONSTRUCTION OF BADMINTON COURT AT ALLALASANDRA LAKE IN WARD NO.04 OF YELAHANKA DIVISION**	**Cum**	**25.29**		
47	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge.	Cum	87.88	67.09	5895.766958
C)	**PROVIDING GRILL FENCING AND CONSTRUCTION OF BADMINTON COURT AT ALLALASANDRA LAKE IN WARD NO.04 OF YELAHANKA DIVISION**	**Cum**	**87.88**		
48	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. complete as per specifications and directions of the Engineer in charge.	Sqm	167.84	278.64	46766.9376
C)	**PROVIDING GRILL FENCING AND CONSTRUCTION OF BADMINTON COURT AT ALLALASANDRA LAKE IN WARD NO.04 OF YELAHANKA DIVISION**	**Sqm**	**167.84**		
49	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. complete as per specifications and directions of the Engineer in charge.	Sqm	353.34	386.64	136615.3776
C)	**PROVIDING GRILL FENCING AND CONSTRUCTION OF BADMINTON COURT AT ALLALASANDRA LAKE IN WARD NO.04 OF YELAHANKA DIVISION**	**Sqm**	**353.34**		
50	Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specificaiton. complete as per specifications and directions of the Engineer in charge.	Sqm	13.60	492.48	6697.728